

# KERALA WATER AUTHORITY



## ADMINISTRATIVE REPORT FOR THE YEAR 2013-2014

JALA BHAVAN,

THIRUVANANTHAPURAM-695033

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**ADMIN**

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## CHAPTER -I

## KERALA WATER AUTHORITY - A PROFILE

- 1.1 Kerala Water Authority was established by the Government of Kerala on 1<sup>st</sup> of April, 1984 under the Kerala Water and Waste Water Ordinance, 1984 to provide for the development and regulation of water supply and waste water collection and disposal in the state of Kerala and for matters connected therewith. The ordinance was replaced by the Kerala Water Supply and Sewerage Act, 1986 (Act 14 of 1986)
- 1.2 The Authority was established by vesting the properties and assets of the erstwhile Public Health Engineering Department under section 16 of the Act and the assets, rights and liabilities of the local bodies and the Kerala State Rural Development Board in so far as they pertain to the execution of water supply and sewerage schemes under section 18 of the Act.
- 1.3 The main functions of the Authority are
  - (i) Preparation, execution, promotion, maintenance and financing of the schemes for the supply of water and disposal of wastewater.
  - (ii) Planning for the state's water supply and sewerage requirements.
  - (iii) Preparation of state plans for water supply and collection and disposal of wastewater on the direction of the Government.
  - (iv) Establishment of state standards for water supply and wastewater services.
  - (v) Carrying out applied research for efficient discharge of the functions of the Authority.
  - (vi) Making provisions for the supply of wholesome water and efficient sewerage services to the people in the state.

## CHAPTER -II

## CONSTITUTION

- 2.1 The Authority consists of the following members.
- (i) Chairman - Appointed by the Government.
  - (ii) Managing Director - Appointed by the Government.
  - (iii) Secretary to Government, Water Supply Department, Government of Kerala.
  - (iv) Secretary to Government, Finance, Government of Kerala.
  - (v) Secretary to Government, Local Administration, Government of Kerala.
  - (vi) Secretary to Government, Rural Development Department, Government of Kerala.
  - (vii) Two members representing the Local Bodies in the state, appointed by Government.
  - (viii) Two members appointed by the Government, one of whom shall be a member belonging to the schedule caste / schedule tribe.
  - (ix) A Technical Member, appointed by the Government.
  - (x) An Accounts Member, appointed by the Government.

During the financial year 2013-14 the following persons were the members of the Authority.

<u>Designation</u>	<u>Period(01/04/2013- 31/03/2014)</u>
1 Chairman KWA & Additional Chief Secretary, Water Resources Department	Sri. V.J.Kurian IAS
2 Principal Secretary to Government(Finance),(Ex-Officio) Additional Chief Secretary (Finance)	Dr. V.P. Joy IAS (till 30.08.2013) Sri.V.Somasundaran IAS 30.09.2013 onwards
3 Principal Secretary Local Self Government,(Ex-Officio)	Sri.V.S. Senthil IAS(till 14.05/2013) Sri.James Varghese IAS(04/07/2013 onwards)
4 Secretary Local Self Government,(Ex-Officio)	Sri.Rajesh Kumar Singh IAS(till 31/05/12) Sri.T.J.Mathew IAS(05/10/12 -27/12/12) Dr.Rajan Khobragade IAS(till 29/5/2013) Vide GO (Ms No .46/2013/WRD dtd 29/5/2013 the post was deleted and in place executive director KRWSA was made the ex-officio in clause(f) of section for the KWS&S act 1986.
5 Executive Director KRWSA (ex-officio)	29-5-2013 onwards Sri.T.Bhaskaran (30/9/2013 onwards)
Managing Director, Kerala Water Authority	Sri. Ashok Kumar Singh IAS
6 Technical Member, Kerala Water Authority	Sri.P.S.Rajendra Babu (till - 31/05/13) Sri T C Subran 1-6-2014 onwards
7 Accounts Member, Kerala Water Authority	Vacant Sri. V.S.Pradeep, FM & CAO(Accounts Member in charge, Special Invitee)
8 Member	Adv.K.V.Mani Sri.Johny Areekattel Sri.E.K.Chellappan Sri.John Thomas
9 Executive Director, KRWSA (Special Invitee) Special Invite	Sri. M.G.Rajamanickam IAS( till 14/5/2013) Sri.R.Sukumaran (4.7.2013 to 21.2.2014)



**MEMBERS OF KERALA WATER AUTHORITY**

- 1 Sri. V.J Kurian IAS, Chairman, KWA & Additional Chief Secretary, Water Resources Department, Government of Kerala, Thiruvananthapuram
- 2 Sri. Rabindra Kumar Agarwal IAS, Secretary (Finance Resources), Government of Kerala, Thiruvananthapuram.
- 3 Sri. James Varghese IAS, Principal Secretary to Government, Local Self Government, Government of Kerala, Thiruvananthapuram.
- 4 Sri. Patil Ajit Bhagwatrao IAS, Managing Director, Kerala Water Authority, Jalabhavan, Thiruvananthapuram
- 5 Smt. Tinku Biswal IAS, Executive Director, KRWSA, PTC Towers, Thiruvananthapuram - 1
- 6 Sri. Raveendran. T, Technical Member, Kerala Water Authority, Jalabhavan, Thiruvananthapuram
- 7 Sri. Johny Areekattel, Areekattel House, Elenji P. O., Ernakulam.
- 8 Sri. E.K Chellappan, Manohara Bhavan, Pezhumpara P.O, (via) Vadasserikkara, Pathanamthitta
- 9 Sri. John Thomas, Kochu Koyikkal House, Muttom P.O, Harippad, Alappuzha.
- 10 Sri. Chacko Varghese, Kovelil House, Pariyapuram P.O, Angadippuram, Malappuram PIN:679 321
- 11 Sri. V.S Pradeep, Accounts Member (i/c), FM & CAO, Kerala Water Authority, Jalabhavan, Thiruvananthapuram (Special invitee)

## CHAPTER -III

## ORGANIZATIONAL STRUCTURE

- 3.1. Kerala Water Authority has its Head Office at Jala Bhavan, Thiruvananthapuram. The Managing Director heads the head office. There are three Regional Offices headed by Chief Engineers at Thiruvananthapuram, Kochi, Kozhikode and a Chief Engineer office for JBIC in Trivandrum. WASCON, the consultancy wing of Kerala Water Authority is headed by a Chief Consultant in the rank of a Chief Engineer.

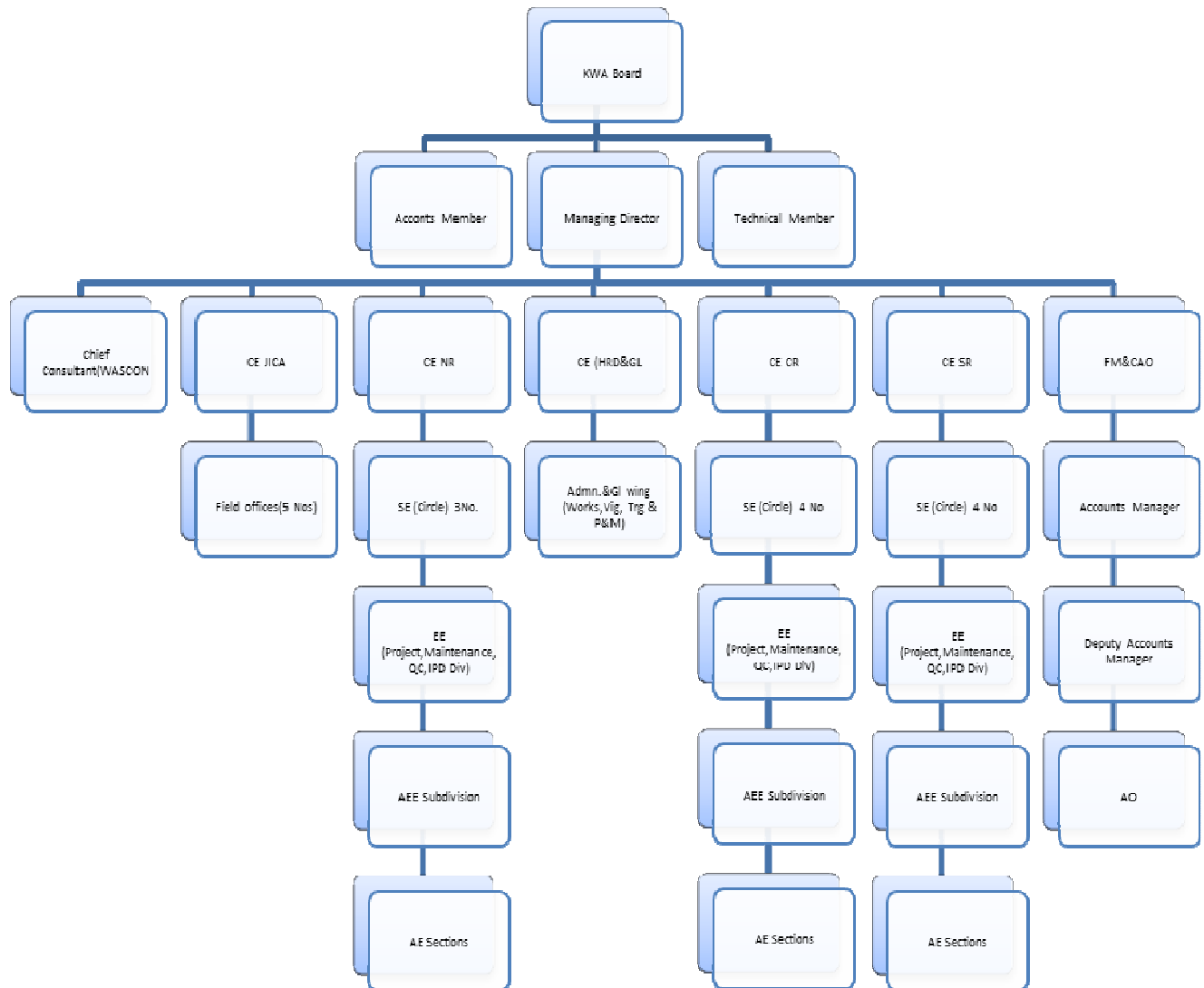
Website : <http://www.keralawater.org>

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- 3.2. There are 11 Circle Offices, 45 Divisions, 112 Sub-Divisions and 242 Sections under the regional offices .The Circle offices are headed by Superintending Engineers, Divisions by Executive Engineers, Sub Divisions by Assistant Executive Engineers and section offices by Assistant Engineers. There are separate offices for execution of projects, operation and maintenance and quality control functions. The JICA assisted KWSP has offices at the place of each of the five schemes. In addition there is a State Referral Lab at Kochi headed by a Director (Spdg. Engineer).

- 3.3 Organisational Structure



3.4. The activities of Kerala Water Authority are centered on the Divisions. The various Divisions and their functions are:

**a. Water Supply / P.H. Division.**

Dealing the Operation & maintenance of water supply schemes which are run by Kerala Water Authority. Deposit works of Local Bodies are also carried out by these divisions. Collection of water charges is also done by these Divisions.

**b. Project Divisions.**

These divisions are constituted exclusively for the execution of various projects of drinking water and sewerage schemes.

**c. Investigation, Planning and Design Division**

Investigation, Planning and design of various urban and rural water supply schemes and sewerage schemes.

**d. State Referral Lab / Quality Control Divisions.**

Engaged in Water quality surveillance / monitoring and act as a Referral agency to guide the public as well as the Government in all cases of all drinking water quality problems.

**e. WASCON**

It is a consultancy wing of KWA and is authorised to undertake consultancy and construction works in Civil Engineering, provide services to LSGs while taking up infrastructure projects in water/ sanitation sector.

**f. JICA**

Implementation of five major water supply schemes assisted by Japan International Co-operation Agency. To augment and rehabilitate water supply systems of two urban regions viz. Thiruvananthapuram and Kozhikode and to construct water supply systems for three rural regions viz. Meenad, Cherthala and Pattuvam.

**g. Stock verification**

There are two stock verification subdivisions functioning under Accounts Member. Two stock verification teams are also functioning. One is in charge of the physical verification of materials stored in different stores upto Ernakulam and the second one is in charge of offices beyond Ernakulam.

**h. Vigilance wing**

There is a vigilance wing headed by a Deputy Chief Engineer, and consisting of one Executive Engineer and two Asst. Executive Engineers functioning under the Technical Member. They are entrusted with the task of detailed enquiry of allegations against officers and on the execution of different works and other enquiries entrusted to it in respect of any matter effecting the Authority. The report submitted will be scrutinized by a committee headed by the Technical Member and based on their recommendation further action would be taken in every case.

**i. Internal Audit wing**

Kerala Water Authority is having an Internal Audit Wing with a section at headquarters and two teams headed by Internal Auditors. These audit teams are deployed for the yearly audit of the accounts and other records of the division offices. They are also responsible for the follow up action with regard to the audit findings of the Accountant General, stock verification reports, Internal Audit reports, special audit reports, etc. They report directly to the Accounts Member.

## Computerisation and IT Initiatives.

During 2013-2014, Kerala Water Authority has initiated various IT projects that played pivotal role in improving our efficiency and business performance, keeping our mission of being the most consumer friendly organization. Meanwhile we have ensured transparent and understandable communication on these IT projects to satisfy our organizational policies, realizing commitment from the management. To cope with the fast changing IT environment we have continuously incorporated new technologies with wider range.

### **4.1. eAbacus**

Computerization in Kerala Water Authority has achieved another dimension when State wide roll out of 'eAbacus'- Enhanced Advanced Billing and Collection Utility System- covered further 15 more revenue locations, bringing more than 70 % consumer under our centralized data system. With respect to the revenue system in Kerala Water Authority it is highly appreciable to have brought the major portion of consumer data in the centralized system. It is considered as the major milestone for boosting the revenue collection system in Kerala Water Authority.

With eAbacus KWA envisage a considerable improvement in revenue collection by proper monitoring with the aid of dynamic reports from eAbacus. To achieve this various levels of training programs were imparted to the existing incumbents to the level of computer literate and techno savvy people with a boarder outlook towards the revenue system of KWA.

### **4.2 STEPS**

Application for managing and monitoring the deposit and other short term construction works in KWA officers around Kerala. It was designed to be a key application in monitoring of drought related works as well. Steps application is a web-based application utilising internet, constitutes a secure login module with access control enabling the various officers belonging to different hierarchy use the application functionalities to the pre-defined limits.

The application is intended to monitor the short term projects of value below 50 lakhs. The application is indicated to stream line the process of such works originating from the field level and eliminate the delay in file processing and inception of project. The application is intended to deliver the benefits of the fast project executions directly to the public. The main intention of the application is tracking and monitoring of such projects along with the payment of bills.

The application has been deployed in all sections, sub-Division, divisions, regional offices, circle offices, and head office of Kerala water authority totalling to 359 offices. The number of users is about 399 and the number of projects managed through the application is above 5000.

#### **4.3. MARCH**

MARCH is Monitoring, Accounting and Reporting by Centralized HR System, an automated software which is developed to track all the information related with the daily wages staffs of KWA. HR means hand receipt. This application generates a bill in KPW 24 format. HR means hand receipt. This hand receipt is given to contractors for paying the salary of daily wage staffs who are working under them. Instead of making direct payments to these staffs, the system generates a bill in the format of KPW 24.

March application is a web-based application utilising internet, constitutes a secure login module with access control enabling the various officers belonging to different hierarchy use the application functionalities to the pre-defined limits.

The application is intended to monitor the hand receipt payment of all the types of daily wage employees of KWA linking the work to the component of schemes. The main purpose of MARCH is to track all the information related to the daily wages staffs of KWA. Instead of making direct payments to these staffs, the system generates a bill in the format of KPW 24. The system automates the complete bill and voucher processing of KPW24 bills in the organization which was done manually before the implementation of MARCH through shift marking and management of dedicated hierarchies. The payment is verified by a unit at the head office and the corresponding payment generated is directly transferred to the origin and the vouchers are to be closed once the payment is affected.

The application has been deployed in all sections, sub-Division, divisions, regional offices, circle offices, and head office of Kerala water authority. The number of users is about 500 and the number of daily wage employees is about 5000.

#### 4.4 O&M

O & M application (Bill Data Collection System) is used for managing the works related to operation and maintenance works of Kerala Water Authority from the section level. The system has a scope in entering IR's and bills setting automated priorities based on the entry. The application features verification of the entered bills by sections and approved by Division offices.

The users viz. all AEs/AEEs/EEs throughout Kerala are intended to enter O&M Bills in their respective sections, sub divisions or divisions and after verification of the data in their privilege, the EEs must re-check the data and approve the bills which are entered by the sections and subdivisions under them. Once all bills are approved, the Executive Engineer creates the vouchers based on the digitized bills. All adjustments and payments will be properly entered under relevant accounting heads during this process. Finally the payment processing of vouchers will be done. Relevant data related to bill payment such as CBV no, cheque no etc will be captured by the software.

Once all these phases are completed the reports regarding the paid and pending O &M bills can be generated and relevant information obtained from the software. Also other MIS reports will be available to the users. The system allows real-time centralized monitoring of bill processing in all divisions. It also helps to eliminate possible mistakes and speeds up O&M bill processing.

At present this 'O&M bill monitoring system' is being used for the centralised processing and releasing of payments for all the O&M works in Kerala Water Authority, which results a high value of centralised monitoring and real time fund allocation for O&M.



The application is used across all section offices, sub division offices, division offices, Region circle and head offices of Kerala Water authority. All monitoring of the application is conducted

#### **4.5. LIMS**

Centralised Solution for central Laboratory & other 15 Quality Control Laboratories operations and Management. The Workflow from sample reception to reporting has been automated as per the Business Process of the Laboratory.

The information available on LIMS has been further utilized towards maintaining a Quality Management System. While the manual workflow of the laboratory was having usual bottle necks with regards to physical paper flow and information sharing with officials engaged in corrective actions and interventions.

For top management and executives dependency on Water Quality Information has been a mirage. As timely intervention and corrective action was not possible in an efficient method. A system has been built to monitor not only the Samples from KWA own sources and schemes, but also the private samples from the public.

Therefore a paperless Laboratory Information Management System with facility to connect all the agencies involved in quality surveillance to improve the performance of Lab and build a Decision Support System for the management. LIMS further extended to 18 more quality control offices across Kerala.

## CHAPTER V

## Schemes Undertaken

**Water Supply Schemes in operation as on 31/3/2014**

5.1 Kerala Water Authority has 73 Schemes in operation in urban areas and 2153 schemes in operation in rural areas as on 31/03/2014. The district wise scheme in operation is shown below.

Sl. No.	Name of District	No. of Urban Water Supply Schemes	No. of Rural Water Supply Schemes	Total
1	Thiruvananthapuram	6	146	152
2	Kollam	3	107	110
3	Pathanamathitta	3	71	74
4	Alappuzha	7	79	86
5	Kottayam	6	157	163
6	Idukki	1	199	200
7	Ernakulam	14	157	171
8	Thrissur	12	256	268
9	Palakkad	4	187	191
10	Malappuram	5	160	165
11	Kozhikkode	2	247	249
12	Wayanad	0	63	63
13	Kannur	7	171	178
14	Kasargode	3	153	156
	<b>Total</b>	<b>73</b>	<b>2153</b>	<b>2226</b>

5.2 Ongoing schemes: Kerala Water Authority implements projects / schemes under the state plan of Government of Kerala relating to water supply and sewerage. The 100% centrally sponsored Accelerated Rural Water Supply Schemes for water supply to 'problem villages' and 50% Centrally Sponsored Accelerated Urban Water Supply Schemes are also implemented by Kerala Water Authority.

5.3 The Authority also executed various schemes after borrowing from NABARD and Bank and Government of Kerala gave guarantee for loans and the loans are to be repaid by Kerala Water Authority from its own sources.

5.4 During the year 2013-14 there are 73 schemes under execution in urban areas and 2153 schemes under execution in rural areas. The ongoing Water Supply Schemes include 5 major Water Supply Projects assisted by JBIC Projects under implementation in Trivandrum, Cherthala, Meenadu, Kozhikkode and Pattuvam

### **JICA Assisted Kerala Water Supply Project**

The JICA assisted Kerala Water Supply Project (KWSP) being implemented by Kerala Water Authority comprises the following 5 schemes:

1. Augmentation and Rehabilitation of Water Supply Scheme to Thiruvananthapuram city Region.
2. Water Supply Scheme to Meenad and adjoining Panchayaths in Kollam District.
3. Water supply scheme to Cherthala Municipality and adjoining Panchayaths in Alappuzha district.
4. Augmentation and Rehabilitation of water Supply Scheme to Kozhikkode City and adjoining Panchayaths.
5. Water Supply Scheme to Pattuvam and adjoining Panchayaths in Kannur district.

## Key features of the project

Scheme	WTP (MLD)	Transmission Main (km)		Distribution Main (km)	Service Reservoirs (No.)
		Raw Water	Treated Water		
TVM	74	0.30	41.32	409.60	11
Meenad	71	1.58	80.40	992.50	14
Cherthala	107	20.88	81.00	660.00	18
Kozhikode	174	0.44	123.31	1,864.00	20
Pattuvam	90	11.54	82.00	623.00	13
Total	516	34.74	408.03	4549.1	76

The project is nearing completion. The major components of all the five schemes under the project have been completed for production, transmission of storage of treated water viz, intake, raw water pumping/gravity mains, transmission systems and service reservoirs. The installed capacity of all the schemes is 516 MLD, for raw water pumping and production of treated water. The treatment plants are based on state-of-the-art design, using either lamella plate clarifier technology or sludge blanket clarifiers and equipped with automatic control and operational features. For raw water pumping from source to Water Treatment Plant, 34 km of pipe lines and for clear water transmission 408 km of pipe lines have been laid for the five schemes overall. Altogether, there are 76 new Ground Level or Over Head Service reservoirs constructed for the five schemes with an overall capacity of 232.96 Million litres for distribution of the treated water.

The schemes are operational now except for the following (i). Portion of Distribution networks of Thiruvananthapuram, Meenad and Kozhikode schemes (ii). Rehabilitation works of existing water treatment plants of Thiruvananthapuram and Kozhikode and (iii) A few components of Institutional Strengthening. Of 4600 km of distribution lines envisaged in the five schemes, about 3639 km has been laid and remaining to be laid is 961 km (Thiruvananthapuram: 92 km, Kozhikode:695 km and Meenad:174 km). The distribution networks envisaged for Cherthala and Pattuvam have been completely laid.

The project when fully completed is expected to benefit 41 lakh people. The revised estimated cost of the project is Rs. 2987.40 crores,

The Institutional Strengthening component of KWSP covers various aspects such as procurement of equipments, procurement of services, Network& connectivity, Servers & storage infrastructure and Central Control Unit. The main components pending completion under IS are CCU building, ERP, Asset Management and installation of flow meters.

### Project Progress

Sl. No.	Schemes	Planned Progress	Achieved Progress %
1	Thiruvananthapuram Scheme	100	93.30
2	Meenad Scheme	100	91.36
3	Cherthala Scheme	100	100
4	Kozhikkode Scheme	100	85.5
5	Pattuvam Scheme	100	97.92

**Physical progress achieved as on 31/03/2014**

<b>Trivandrum</b>	I	Intake, Raw Water Pipeline and WTP	100%	completed
	II	Treated Water Transmission Pipeline	100%	completed
	III	Distribution Systems	contract closed	Contract terminated and rearranged as P3 -R1
	III-R1	Distribution Systems	33%	December 2014
	IV	Service Reservoirs	100%	completed
<b>Meenad</b>	I	Intake, Raw Water Pipeline and WTP	100%	Final Bill Paid
	II	Treated Water Transmission Pipeline	100%	Final Bill under Processing
	III	Distribution Systems	work terminated	Contract terminated and rearranged as P3 -R1
	III-R1	Distribution Systems	17.70%	December 2014
	IV	Service Reservoirs	100%	completed
<b>Cherthala</b>	I	Intake, Raw Water Pipeline and WTP	100%	completed
	II	Treated Water Transmission Pipeline	100%	
	III	Distribution Systems	100%	
	IV	Service Reservoirs	100%	
<b>Kozhikkode</b>	I	Intake, Raw Water Pipeline and WTP	83.02%	April 2014
	IIA	Treated Water Transmission Pipeline	98.5%	May 2014
	IIB	Treated Water Transmission Pipeline	98.75%	
	III	Distribution Systems	work terminated	Contract terminated and rearranged as P3-R1 & R2
	III-R1	Distribution Systems	18.60%	December 2014
	III-R2	Distribution Systems	24.20%	December 2014

Pattuvam	IV	Service Reservoirs (17 Nos)	100%	Taken Over
	IV-R1	Service Reservoirs at Thalikulathur	30%	September 2014
	IV-R2	Service Reservoirs at Kakkur	5%	January 2015
	IV-R3	Service Reservoirs at Narikunni	5%	March 2015
	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	
	III	Distribution Systems	Work Terminated	Contract terminated and rearranged as P3R1, R5 & R6
III-R1	Distribution Systems	74.28%	May 2014	
III-R5	Distribution Systems	98%	Completed	
III-R6	Distribution Systems	85.4%	May 2014	
IV	Service Reservoirs	100%	Completed	

## FORMAT

### District wise & category wise number of ongoing water supply schemes during 2013-14 (as on 31.03.2014)

Name of District	Number of ongoing Water Supply Schemes																	
	Rural Water Supply Schemes									Urban Water Supply Schemes					Total			
	NRDWP	Technology Mission	TRP schemes funded by Gol	State Plan	SAARK(2010-2011)	New Water Supply Schemes(2013-14)	NABARD	Externally Assisted (JICA)	Deposit works of KWA (For schemes of local bodies/other agencies)	SAARK(2009-10)New capital schemes	Completion of ongoing UWSS -special package	Externally Assisted (JICA)	JNNURM	SAARK(2009-10) Replacement of old Pipes.		UIDSSMT	Bank	
Thiruvananthapuram	17		Completed	4		4		73	1	2	1	1	Now taken under new head - Replacement of old and obsolete pipe.			103		
Kollam	11			0		1	1	60										73
Pathanamthitta	20			1		1		131										153
Alappuzha	8	1		1		-		25								1		36
Kottayam	25			6		1		50	1							2		85
Idukki	21					1		18										40
Ernakulam	14					1		385		1		1						402
Thrissur	6				1	3		326		5						2		343
Palakkad	14	1				2		39		1						2		59
Malappuram	24				3	2		134								2		165
Kozhikkode	16	1			1	1		56				1				1		77
Wayanadu	3					3		29								1		36
Kannur	9				1	-	1	96		3						2		112
Kasargode	7					6		51										64
<b>Total</b>	<b>195</b>	<b>3</b>		<b>13</b>	<b>5</b>	<b>0</b>	<b>26</b>	<b>2</b>	<b>1473</b>	<b>2</b>	<b>12</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>1748</b>	

### LIST OF SCHEMES COMPLETED (2013-14)

Sl.No.	Name of Division	Name of Scheme	Category	District	Remarks
1	Project Dn. Nattika	WSS to Edavilangu - Azhikkode	Tech.Mission	Thrissur	Partially Completed
2	Project Dn. Nattika	WSS to Venkitangu and adjoining villages	Tech.Mission	Thrissur	Partially Completed
3	Project Dn. Kozhikkode	WSS to Krishnagiri, Purakkadi & Ambalavayal Villages - Laying distribution system	ARP	Wayanad	Completed

4	Project Dn. Thiruvananthapuram	ARWSS to Ottoor and Manamboor Panchayat (Varkala Ph-I)	ARP	Trivandrum	Completed
5	Project Dn. Thiruvananthapuram	ARWSS to Edava and Elakamon Panchayat (Varkala Ph-III)	ARP	Trivandrum	Completed
6	Project Dn. Kollam	WSS to Kareepra	SPAN	Kollam	Completed
7	Project Dn. Kozhikkode	WSS to Kaniyambetta - laying distribution system	ARP	Wayanad	Completed
8	Proj. Dn. Malappuram	Additional coverage to Pulamanthole & Kuruvambalam village	ARP	Malappuram	Completed
9	Proj. Dn. Malappuram	WSS to AR Nagar - laying distribution system	ARP	Malappuram	Completed
10	Project Dn. Nattika	WSS to Thrikkur and Kallur Village	ARP	Thrissur	Completed
11	Project Dn. Nattika	WSS to Oorakom and adjoining Villages	SPAN	Thrissur	Completed
12	Proj.Dn, Piravom	RDWSS to Paipra and Nellikuzhy Pt.	SPAN	Ernakulam	Completed
13	Proj.Dn, Piravom	RDWSS to Edakkattuvayal, Amballoor & Udayamperoor Pt.	SPAN	Ernakulam	Completed
14	Project Dn. Thiruvananthapuram	ARWSS to Kallara & Pangode Panchayath	ARP	Trivandrum	Partially completed on 11.12.2013
15	Project Dn. Thiruvananthapuram	ARWSS to Panavoor, Pullampara & Vembayam Panchayath.	ARP	Trivandrum	Partially completed on 11.12.2013
16	Proj.Dn, Kollam	WSS to West Kallada Sooranadu south & Sasthamcottah Panchayath	ARP	Kollam	Partially completed on 17.12.2013
17	Proj. Dn. Malappuram	Additional coverage to Elamkulam village Angadippuram, Phase I, Zone I distribution	ARP	Malappuram	Completed
18	Proj. Dn.	Improvements to Avoly	ARP	Ernakulam	Completed
19	Proj. Dn. Malappuram	Augmentation of Thrikkur Kallur Balance work	ARP	Thrissur	Completed



20	Poj. Dn. Palakkad	RDWSS to Karakurissi & Thachanpara Pts.	SPAN	Palakkad	Completed
21	Project Dn. Nattika	WSS to Eriyad, Methala, Edavilangu & Kadukutty Pt.	SPAN	Thrissur	Partially completed
22	Project Dn. Thiruvananthapuram	Rehabilitation of 1200 mm PSC pipe by 1200 mm MS pipe from Aruvikkara to Peroorkkada		Thiruvananthapuram	Completed
23	Poj. Dn. Palakkad	Pattambi village	ARP	Palakkad	Completed
24	Poj. Dn. Palakkad	Improvements to ARWSS to Pattambi Pt. Laying distribution to Zone II & III	ARP	Palakkad	Completed
25	Poj. Dn. Palakkad	Pottassery I & II	ARP	Palakkad	Completed
26	Project Dn. Kozhikkode	Augmentation of WSS to Kizhakkoth village- Laying distribution line	ARP	Kozhikkode	Completed
27	Project Dn. Kozhikkode	ARWSS to Thrippangottur village in Thalassery taluk providing vented cross bar in the river source	ARP- Sustainability	Kannur	Completed
28	Proj. Dn. Malappuram	RDWSS to Anakkayam village	SPAN	Malappuram	Completed

## Details of work above 10 Crore (awarded during 2011-12,2012-13,2013-14 )

Sl No	Tender NO.	Name of work	Year	TPAC	Quoted PAC	Date of Proceedings	Remarks
1	TD-16/81/KK D/2011	SPAN – NABARD Assisted WSS to Cheekode and adjoining villages – Package IB – Supplying, laying, testing and commissioning of clear water pumping main with 5150m of 500 mm DI K9 pipe from sump cum pump house at Parathakkad to OHSR at Komparamba, Design, construction and commissioning of 35.00LL capacity OHSR at Komparamba,Supplying, laying, testing and commissioning of distribution system from Komparamba. OHSR with 550m of 600mm DI K9, 385m of 500mm DI K9& 150m of 450mm DI K9 pipes	2011	83178798	104937620	3/14/2012	
2	TD-17/82/KK D/2011	SPAN – NABARD Assistance for WSS to Cheekode and adjoining villages – Package ID	2011	191228808	194093911	12/8/2011	
3	TD 18-83/KKD/2011	SPAN – NABARD Assistance for WSS to Cheekode and adjoining villages – Package IE	2011	112015543	103985270	12/8/2011	
4	TD 3-2/PKD/2012	SPAN – WSS to Sreekrishnapuram & adjoining villages – Supplying, laying, testing and commissioning of DI pipes of various sizes for Raw water pumping main, clear water pumping main and distribution system for zone I, II, III & IV - Package II -	2012	149170789	148316159	2/9/2012	
5	TD-60-90/2012	SAARK - Water supply improvements to Thalassery Municipality and adjoining Towns in Thalassery Taluk, Kannur District - Design, construction, commissioning and maintenance of civil structures and design, supply erection, commissioning and maintenance of suitable VT pumpsets and internal 11 KV substation at pumping station, Veliyambra - Package I & II-	2012	93207317	111500000	3/27/2013	

6	TD-14/16/K NR	19-replacement of pipes - UWSS to Kannur Municipality - Strengthening distribution network phase I - Package I.- Supplying, Laying, testing, commissioning and maintaining of CW gravity main from Thana OHSR to new OHSR near Sangeetha Theatre for zone 1(b) and OHSR at Kodaparamba for zone 1 (a) and existing OHSR at Kasanakotta for zone 1(c), construction of 10.00 lakh litre capacity OH reservoir at Kodaparamba, construction of 16.00 lakh litre capacity OH reservoir near Sangeetha Theatre, Supplying, Laying, testing, commissioning and maintaining distribution system for zone 1 (a), 1(b), 1(c) and modification and re-arranging the existing service connection for zone I	2013	110511433	131535909	4/13/2013
7	TD-19-23/2013	NRDWP – XVI – SLSSC – 2011 - CWSS to Kuzhalmannam, thenkurissi and KannadiPanchayaths in Palakkad District – Renovation of existing intake well and associated structures - Design, construction, trial running, commissioning and maintenance of 9.5 MLD water treatment plant, Supplying, laying, testing commissioning and maintenance of 300mm, 250mm and 200mm DI clear water pumping main & 250mm PVC gravity main, Design, supply erection, commissioning and maintenance of raw water and clear water pump sets and Transformers etc	2013	121418059	121623925	5/2/2013
8	TD-24-28/2013/TSR	19-Replacement of pipe lines – Replacement of old AC pipe with DI pipe – 150 to 500mm dia in Mala and adjoining panchayath in Thrissur district (25.71 KM)	2013	124771696	118418340	5/16/2013
9	TD 51-68/KNR	NABARD- RIDF XVIII- RWSS to Chengala, Muliya, Madhur and Mogral Puthur Panchayaths in Kasaragod Taluk in Kasaragod District – Phase II – Supplying, Laying, Testing, Commissioning and Maintenance of Clear Water Pumping Main , Gravity Mains, construction of 3 Nos of OH Reservoirs, Supplying, Laying ,Testing and commissioning of Distribution System for Zone III and IV and supplying erection and commissioning of pumpsets and Transformers	2013	204036965	234642510	2/14/2014

10	TD-107-129/2013/KKD	NABARD-RIDF- XVIII-WSS to Othukkungal & Ponmala Grama Panchayath in Malappuram District- Packakge - III - Design and construction of 18.00 LL capacity OHSR at Athani. Near seban including supply and laying 350mm DI clear water pumping main, Distribution system for Zone I & II	2013	96379899	106604829	3/4/2014	
11	TD-67-81/KKD	Augmentation and Improvements to W.S.S to Nilambur Municipality –Supplying, laying, testing & commissioning of distribution system Phase- I-	2014	166727601	183991661	4/13/2015	

## CHAPTER VI

## IMPLEMENTATION OF RIGHT TO INFORMATION ACT-2005

Right to Information act is the Act which gives the right to all people to know the public information passed the great Indian Parliament on 2005. This act is one of the mile stones in the history of India. This rule was implemented all over India on the same year.

The Kerala Water Authority initiative to implement the rule on the same year also. In this regard the Kerala Water Authority published sufficient orders and circulars for perfect and smooth functioning of RI Act. As per this orders seven Nos of officers have been deputed as Public Information Officers in Jala Bhavan, the head quarters of Kerala Water Authority. The Deputy Chief Engineers in all Regional Offices, PA to SE or EE in Circle Offices, TA to EE in Division offices and AEE in Sub Division offices respectively are also deputed as Public Information Officers. In absence of Public Information Officers, the Assistant Public Information Officers will be the responsible person and deputed the Administrative Officer of Regional Offices, The Administrative Assistant of Circle Offices, The Divisional Accountant of Divisional Offices and all Assistant Engineers under the purview of Sub Divisional Offices are deputed as Assistant Public Information Officers.

The complaints raised by the applicants against the information's given those not satisfactory or not in stipulated period will be heard and redresses. Hence the Appellate Authority's are needed and nominated the Chief Engineer (HRD & GL) in Jala Bhavan, Chief Engineers in all Regions and Chief Engineer, JICA Project for the information's related to the JICA Assisted Kerala Water Supply Project as Appellate Officers.

Other details in connection with the Implementation of Right to Information Act during the year 2013-14 shown as below.

6.1 SUO MOTO DISCLOSURE UNDER SECTION 4(1)(b) DURING THE YEAR:  
2013-14

Sl.No.	No. of Public Authorities	No. of Public Authorities which published the 17 Manuals under Section 4 (1)(b)	No. of Public Authorities which updated the 17 Manuals during the year	No. of Public Authorities which displayed the 17 Manuals Online
(1)	(2)	(3)	(4)	(5)
	144	38	33	21

6.2 DISPOSAL OF INFORMATION REQUESTS BY PUBLIC INFORMATION OFFICERS DURING THE YEAR 2013-14

No. of Requests pending at the end of Last Year	No. of Requests Received during the Year	Total No. of Requests	No. of Requests Disposed	No. of Requests Rejected	No. of Requests deemed to be Refused under Section 7 (2) Received during the Year	% of Cases Access to information Denied
(2)	(3)	(4)	(5)	(6)	(7)	(8)
7	4068	4075	4067	8	2	-

6.3 DESIGNATION OF PUBLIC INFORMATION OFFICERS/APPELLATE AUTHORITIES DURING THE YEAR 2013-14

Sl.No.	No. of Public Authorities	No. of Public Information Officers Designated	No. of Assistant Public Information Officers Designated	No. of Appellate Authorities Designated
(1)	(3)	(4)	(5)	(6)
	158	146	192	5

6.4 INFORMATION REQUESTS REJECTED BY PUBLIC INFORMATION OFFICERS DURING THE YEAR: 2013-14

No. of Requests Rejected	No. of Requests Rejected under Section 8	No. of Requests Rejected under Section 9	No. of Requests Rejected under Section 11	No. of Requests Rejected under Section 24	No. of Requests Rejected under Sections
(2)	(3)	(4)	(5)	(6)	(7)
14	7	-	-	-	7

6.5 DISPOSAL OF FIRST APPEALS BY DESIGNATED APPELLATE AUTHORITIES DURING THE YEAR: 2013-14

No. of First Appeals pending with Appellate Authorities on 01.04.2012	No. of First Appeals preferred during the year	No. of First Appeals with Appellate Authorities (2+3)	No. of First Appeals Disposed	No. of First Appeals Rejected	% of First Appeals Rejected	No. of First Appeals pending for more than 45 days
(2)	(3)	(4)	(5)	(6)	(7)	(8)
2	88	90	88	1	1%	1

6.6 PENALTIES IMPOSED & COLLECTED DURING THE YEAR: 2013-14

Penalties imposed in previous year pending for collection	Details of Penalties imposed by information Commission under Section 20(1)	Total	Details of Penalties Collected
(2)	(3)	(4)	(5)
Nil	Nil	Nil	Nil

5.7 DISCIPLINARY ACTION TAKEN AGAINST OFFICERS IN RESPECT OF  
ADMINISTRATION OF RTI ACT DURING THE YEAR: 2013-14

Details of Disciplinary Action Recommended by information Commission under Section 20(2)	Details of Disciplinary Action Taken based on Recommendation of Information Commission	Other Disciplinary Actions Taken (other than those Recommended by Information Commission)
--	--	---

6.8 SUMMARY COSTS, FEES & CHARGES COLLECTED BY PUBLIC  
AUTHORITIES DURING THE YEAR: 2013-14

Cost Collected Section 4 (4)	Fee Collected Section 6(1)	Fee Collected Section)7 (1)	Fee Collected Section 7(5)	Other charges collected (Specify)	Total Collection
(2)	(3)	(4)	(5)	(6)	(7)
2719	10170	7582	46	864	21381



Chapter VII  
INVESTIGATION PLANING AND DESIGN ACTIVITIES

## 5.1

The investigation, planning and design wing of Kerala Water Authority, which is in charge of preparation of project report for formulation of various water supply and sewerage schemes, was formed in May 1988. The first step for preparing a new water supply scheme is the preparation of preliminary engineering report and investigation estimate. After this detailed survey will be conducted and detailed engineering report with estimate is prepared and approved.

5.2 The investigation, planning and design wing is now attached to the circle offices. There are 3 IPD divisions at Kochi, Changanassery and Thalassery.

5.2.1 Statement of achievement of IPD wing and details of achievements of PER & DER for the year 2013-14 is given below

**Details of Achievements of PER & DER for the year 2013-14**

IPD Division	Name of Scheme		
Thalassery	PER		Nil
	DER	1	Augumentation of WSS to Kasaragod Municipality
		2	WSS to Kanhangad and Nileswaram Municipality
		3	WSS to Panathady(part) in Panathady Pt.
		4	WSS to Pallikkunnu and Puzhathi Pt.
		5	WSS to Kuhimangalam ,Cheruthazham and Naval Academy
		6	WSS to Govt. Medical College
		7	WSS to Central University, Kasaragod
		8	WSS to Kottiyoor, Kelakam and Kanichar Villages
		9	WSS to Payyavoor, Eruvessy and Kanikchar Villages
		10	WSS to Munnad, Bedadukka and Kottikkole Villages-Balance Distribution
		11	WSS to Kottayam Censum town-Balance Distribution
		12	WSS to Chengala,Madhur,Mogral and Mogral-Puthur Pt.-Phase 3
		13	WSS to Naval Academy Ezhimala-Gravity main from WSS to payyanur (M)
Others		Nil	

Details of Achievements of PER & DER for the year 2013-14			
IPD Sub Division	Name of Scheme		
Palakkad	PER	1	WSS to Tarur - I ( obtained Adminstrative Sanction)
		2	WSS to Anaganadi , Thrikkaderi & Cherupulassery Panchayth
		3	WSS to Nalleppully & Elappully Panchayath
	DER	1	WSS to AGALI , Pudur and adjoining Panchayath

Details of Achievements of PER & DER for the year 2013-14
KUDP Sub Divison , Kozhikode
No DER and PER prepared

**ACHIEVEMENTS DURING THE YEAR 2013-2014  
IPD SUB DIVISION , MALAPPURAM**

**A: DETAILED ENGINEERING REPORTS**

Sl.No	Name of Scheme	Name of IPD Sub Division	District	1.Taluk 2.Village 3.Panchayat	Present Status of DER	Remarks
1	2	3	4	5	8	9
1	WSS to Thezhkode & Aliparamba Panchayaths	Malappuram	Malappuram	Thezhkode Aliparamba	DER Submitted	
2	WSS to Nilambur	Malappuram	Malappuram	Nilambur	Design submitted	

**B: PRELIMINARY ENGINEERING REPORT 35**

Sl.No	Name of Scheme	Name of IPD Sub Division	District	1.Taluk 2.Village 3.Panchayat	Target Date for Submission to SE	Present Status of PER	Remarks
1	2	3	5	6	9	10	11
1	WSS to Nannambra	Malappuram	Malappuram	Nannambra		PER Submitted	Project cost 3480 lakhs

**C: Others :SURVEY WORKS**

Sl.No	Name of Scheme	Name of IPD Sub Division	District	1.Taluk 2.Village 3.Panchayat	Details of Survey Works in kmts (All lengths in KM)		Remarks
					Total Surveyed for the scheme	Surveyed during the period 2013-2014	
1	2	3	4	5	6	9	12
1	WSS to Urakam,Veara & Parappur panchayaths-Randum Chekking	Malappuram	Malappuram	Urakam, Veara, Parappur	40.629	8.010	Completed
2	WSS to Purathur & adjoining panchayaths-	Malappuram	Malappuram	Purathur Mangalam Triprangode	228.007	10.558	Completed
3	WSS to Manjeri Medical college	Malappuram	Malappuram	Manjeri		17.661	Completed
4	WSS to Nannambra panchayath	Malappuram	Malappuram	Nannambra		76.208	work in progress
5	WSS toMunniyur panchayath	Malappuram	Malappuram	Munniyur		2.100	work in progress
6	WSS to AR Nager panchayath	Malappuram	Malappuram	AR Nager		5.800	work in progress
7	WSS toAlighar Muslim university	Malappuram	Malappuram	Elamkulam		15.550	Completed
8	WSS to Peruvallur Panchayaths	Malappuram	Malappuram	Peruvallur		54.000	work in progress
				<b>Total</b>		<b>179.329</b>	

6	WSS to AR Nager panchayath	Malappuram	Malappuram	AR Nager		5.800	work in progress
7	WSS to Aligarh Muslim university	Malappuram	Malappuram	Elamkulam		15.550	Completed
8	WSS to Peruvallur Panchayaths	Malappuram	Malappuram	Peruvallur		54.000	work in progress
				<b>Total</b>		<b>179.329</b>	

CHAPTER -VIII  
**FINANCIAL PERFORMANCE**

- 6.1 The main source of finance for Kerala Water Authority are revenue from water charges, grants and loans received from Government of Kerala, Government of India and Loans taken from Financial Institutions like HUDCO & Banks. The Government of Kerala provides funds in the budget in the form of loans and grants to undertake drinking water projects and various other works.
- 6.2 The Cash Flow Statement of Kerala Water Authority for the year 2013-14 is given below.

BALANCE SHEET AS AT 31<sup>st</sup> MARCH 2014

<u>SOURCES OF FUNDS</u>		(Amount in `)
1	Kerala Water Authority Fund	
	a. Contributions & Grants	57,471,044,544
	b. Reserves & Surplus	3,501,843,848
2	Kerala Water Authority Loan Fund	
	a. Secured Loans	1,534,932,375
	b. Unsecured Loans & Deposits	45,634,352,857
		Total
		108,142,173,624
<u>APPLICATION OF FUNDS</u>		
1	Fixed Assets	
	Gross Block	47,984,920,009
	Less: Depreciation Reserve	14,048,514,602
	Net Block	33,936,105,407
	Capital Work in Progress	44,930,007,342
		78,866,112,749
2	Investments	471,005,551
3	Net Current Assets	
	a. Current Assets	12,160,138,771
	b. Current Liabilities	9,733,121,092
		2,427,017,679
4.	Loans & Advances	2,472,293,496
5	Miscellaneous Expenditure to the extent not Written-off	-
6	Accumulated Excess of Expenditure over Income	23,905,744,149
		Total
		108,142,173,624
		(Subject to audit)

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>st</sup> MARCH, 2014

		(Amount in `)
<u>INCOME</u>		
1	Operating Income	
	a. Consumers	3,946,204,349
	b. Others	20,816,228
		<hr/>
		3,967,020,577
2	Grants & Subventions - Government of Kerala	1,986,490,000
3	O&M Grant from Government of India	306,485,000
4	Interest Income	170,197,904
5	Other Non-Operative Income	355,356,968
6	Debtors/Creditors written off	(823,547)
		<hr/>
	Total Income [A]	<u><u>6,784,726,902</u></u>
<u>EXPENDITURE</u>		
1	Operating & Maintenance Expenses	2,789,776,095
2	Payment & Provision to Employees	5,418,319,048
3	Office expenses	135,101,615
4	Travelling & Conveyance Expenses	34,962,676
5	Administrative Expenses	70,853,484
8	Interest on	
	a. Secured Loans	254,030,486
	b. Government of Kerala Loans	2,197,285,000
	c. GPF	250,629,631
		<hr/>
		2,701,945,117
9	Depreciation	994,588,016
		<hr/>
	Total Expenditure [B]	<u><u>12,145,546,050</u></u>
10	Transferred to Capital Work-In-Progress	596,564,590
		<hr/>
		11,548,981,460
		<hr/>
	Excess of Expenditure over Income [B]-[A]	4,764,254,558
11	Prior Period Adjustments	2,112,472,357
		<hr/>
	Excess of Expenditure over Income after prior period adjustments	<u><u>6,876,726,915</u></u>

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31<sup>ST</sup> MARCH 2014SCHEDULE ACONTRIBUTIONS AND GRANTS

1	Net value of assets take over from erstwhile PHED	4,345,327,735
2	Contribution & Grants from Government of Kerala	33,457,641,012
3	Interest free fund from Gok	7,132,251,632
	Less amount released to	
A	Urban LCS Schemes	36,525,750
B	Rural LCA Schemes	39,497,200
C	Kerala Urban Development Project	36,000,000
		7,020,228,682
4	Contribution & Grants from Government of India	14,484,390,037
	Less Amount released to District Collectors and Kerala Rural Water Sanitation Agency	2,287,637,873
		12,196,751,164
5	Donated Capital Assets	1,814,530
6	Capital contribution from other sources	449,281,401
		57,471,044,544

SCHEDULE B

## RESERVE AND SURPLUS

Receive for deposit works	3,501,843,848
	3,501,843,848

SCHEDULE C

## SECURED LOANS

1	Loans from LIC of India	1,029,944,123
2	Loans from HUDCO	
3	Bank Loan	504,988,252

SCHEDULE D

## UNSECURED LOANS &amp; DEPOSITS

1	Loan from Govt. of Kerala	21,355,484,580
2	Interest accrued on GoK Loan	9,710,818,000
3	Deposits from Local Bodies	3,682,928,770
4	Security Deposit	1,955,767,971
5	Earnest Money Deposit	107,319,112
6	Water & Sewerage Connection Deposit	74,919,990
7	Deposit work-Water Supply & Sewerage	8,368,685,332
8	Other deposits	378,429,102
		<u>45,634,352,657</u>

**4 Water Charge - Status of Arrears**

Category	Arrears as on 01/04/2013 (Rs. in Lakhs)	Arrears as on 31/03/2014 (Rs. in Lakhs)
1	2	6
Domestic	9129.33	11242.68
Non Domestic	26470.32	30999.66
Industrial	3546.14	3835.15
<b>Total</b>	<b>39145.79</b>	<b>46077.49</b>



## Chapter IX Establishment

The details related to Establishment Wing required for the preparation of Administrative report for the year 2013 – 2014 is detailed below.

1. Number of Circle offices, Divisional offices, section offices as on 31.03.2014.

i)	No. of Circle offices	13
ii)	No. of Divisional offices	48
iii)	No. of Section offices	239

### 2. List of Circle Offices

List of Circle offices and Divisional offices as on 31.03.2014.

- I. List of Circle offices
  - 1 P.H.Circle, Thiruvananthapuram.
  - 2 P.H.Circle, Kollam.
  - 3 P.H.Circle, Kottayam.
  - 4 JNNURM Circle, Thiruvananthapuram.
  - 5 P.H.Circle, Thrissur.
  - 6 P.H.Circle, Alappuzha.
  - 7 P.H.Circle, Kochi - 11.
  - 8 JNNURM Project Circle, Kochi - 11.
  - 9 P.H.Circle, Muvattupuzha.
  - 10 State Referral Institute, Nettoor.
  - 11 P.H.Circle, Kannur.
  - 12 P.H.Circle, Kozhikode.
  - 13 P.H.Circle, Palakkad.
- II. List of Divisional offices
  - 1 P.H.Division, Thiruvananthapuram.
  - 2 Water Supply Division, Neyyattinkara.
  - 3 Water Supply Division, Attingal.
  - 4 Head Works Division, Aruvikkara.
  - 5 Sewerage Division, Pattoor, Thiruvananthapuram.
  - 6 Project Division, Thiruvananthapuram.
  - 7 P.H.Division, Kollam.
  - 8 P.H.Division, Kottarakkara.
  - 9 P.H.Division, Pathanamthitta.
  - 10 Project Division, Kollam.
  - 11 Project Division, Adoor.
  - 12 P.H.Division, Kottayam.
  - 13 P.H.Division, Thiruvalla.
  - 14 P.H.Division, Kaduthuruthy.

- 15 Project Division, Kottayam.
- 16 Project Division, Alappuzha.
- 17 Quality Control Division, Thiruvananthapuram.
- 18 P.H.Division, Muvattupuzha.
- 19 P.H.Division, Thodupuzha.
- 20 Project Division, Kattappana.
- 21 Project Division, Piravom.
- 22 Project Division, Perumbavoor.
- 23 P.H.Division, Aluva.
- 24 Water Supply Division, Kochi - 18.
- 25 P.H.Division, Kochi - 16.
- 26 P.H.Division, Alappuzha.
- 27 P.H.Division, Thrissur.
- 28 P.H.Division, Irinjalakkuda.
- 29 Project Division, Nattika.
- 30 JNNURM Water Supply Project Division, Kochi - 11.
- 31 Quality Control Division, Nettoor, Ernakulam.
- 32 JNNURM Sewerage Project Division, Kochi - 11.
- 33 P.H.Division, Kasargod.
- 34 P.H.Division, Kannur.
- 35 Project Division, Mattannur.
- 36 Project Division, Kannur.
- 37 P.H.Division, Vadakara.
- 38 P.H.Division, Sulthanbathery.
- 39 P.H.Division, Kozhikode.
- 40 P.H.Division, Malappuram.
- 41 P.H.Division, Edappal.
- 42 Project Division, Kozhikode.
- 43 Project Division, Malappuram.
- 44 KSUDP Division, Kozhikode.
- 45 P.H.Division, Shornur.
- 46 P.H.Division, Palakkad.
- 47 Project Division, Palakkad.
- 48 Quality Control Division, Kozhikode.

**III. Number of promotions ordered in various cadre for the period from 01.04.2013 to 31.03.2014.**

◆ Part Time Sweeper to Cleaner	4
◆ Part Time Sweeper to Full Time Sweeper	1
◆ Draftsman Grade-I to Assistant Engineer 24 (These 24 were reverted back to the post of Draftsman Grade-I vide Order No.KWA/JB/E4.A/161/94 dated, 27.05.2013)	239
◆ Selection Grade Typist to Fair Copy Superintendent	1
◆ Office Attendant to Daffedar	2
◆ Operator to Head Operator	80
◆ Plumbing Inspector to Senior Plumbing Inspector	2
◆ Plumber to Plumbing Inspector	8
◆ Internal Auditor to Senior Administrative Officer	1
◆ Accounts Officer (Admn )to Internal Auditor	2
◆ Senior Superintendent/Revenue Officer Accounts Officer/ Administrative Officer	11
◆ Divisional Accounts Officer Senior Superintendent/Revenue Officer	17
◆ Junior Superintendent to Divisional Accounts Officer	25
◆ Meter Reader to Meter Inspector	6
◆ Assistant Executive Engineer to Executive Engineer	23
◆ Assistant Engineer to Assistant Executive Engineer	23
◆ Surveyor Grade - I to Head Surveyor	6
◆ Surveyor Grade - II to Surveyor Grade - I	25
◆ Superintending Engineer to Chief Engineer	7
◆ Executive Engineer to Superintending Engineer	14
◆ Head Clerk to Junior Superintendent	28
◆ Upper Division Clerk to Head Clerk	30
◆ Lower Division Clerk to Upper Division Clerk	53

4. Appointment in various cadre by KPSC - 01.04.2013 to 31.03.2014.

◆ Unskilled Worker	1
◆ Driver Grade-II/Driver (LDV)	79
◆ Plumber	10
◆ Fitter	18
◆ Overseer Grade-III	342
◆ By transfer appointments of last grade employees Meter Reader	12

◆ Total employee strength of Kerala Water Authority in various cadres 01.04.2013 to 31.03.2014 - 6833

5. Total employee strength of Kerala Water Authority in various cadres 01-04-2013 to 31-03-2014 - 6833
6.
  - a. No. of employees working on contract basis : 4
  - b. No. of employees working on deputation : 10
  - d. Posts created/ Abolished during the year 2013-14 : Nil
  - e. Disciplinary proceedings against employees : 106

Chapter X  
Training Activities

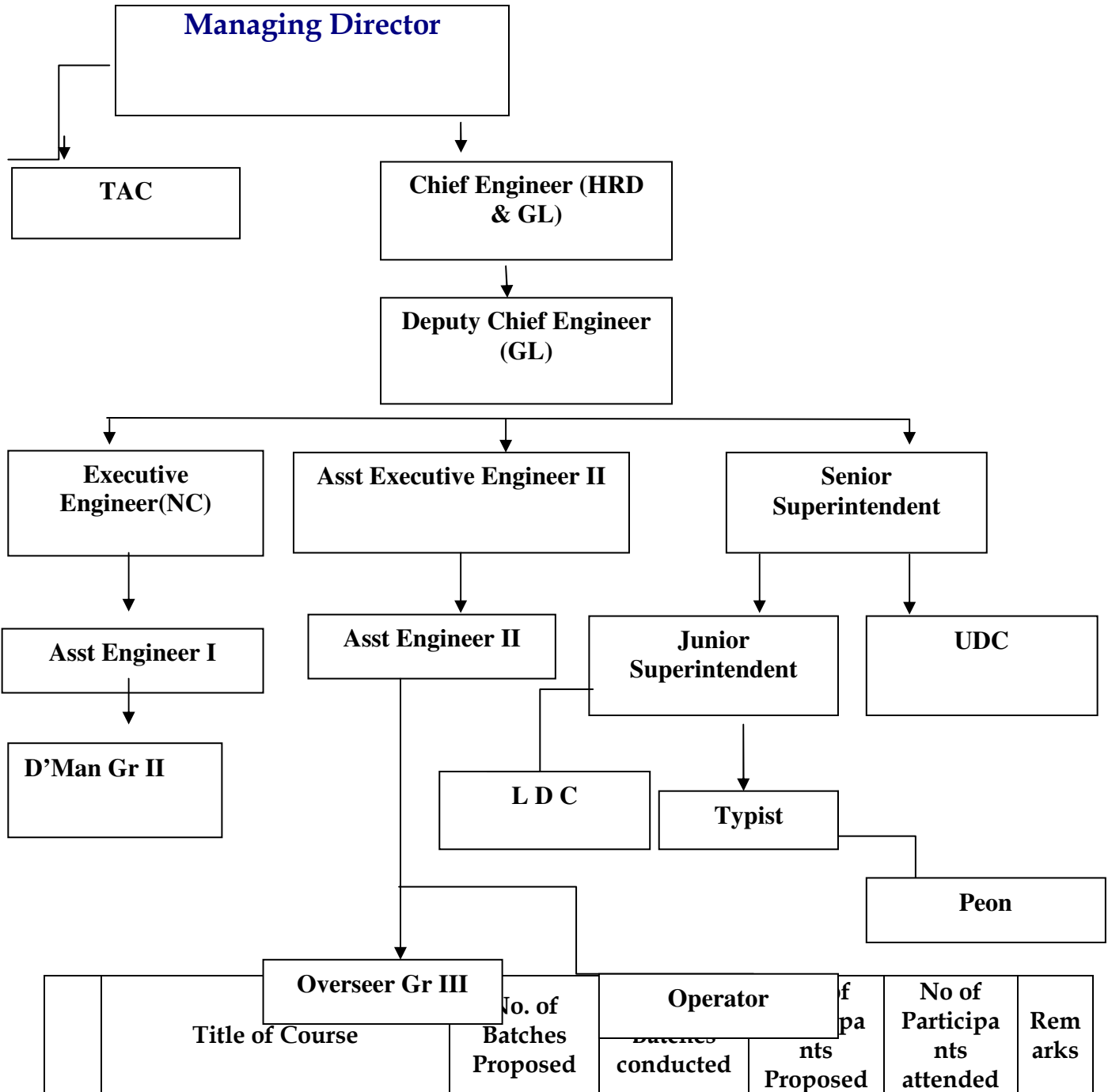
I. Review of Training Activities.

1. Training Calendar 2013 - 2014.

The details of trainings conducted as per the training calendar are presented in the table below.

Table 1: Details of trainings conducted as per calendar 2013 -14

**ORGANISATION CHART OF TRAINING UNIT 2013-14**



Overseer Gr

Operator

1	Supervision of Construction & Construction Quality Management	2				
2	Pump Operation & Maintenance	2	2	67	67	
3	Water Treatment Plant Operation	2				
4	Awareness to Water Quality Monitoring , Water Quality Control & Use of Water Quality Testing Kits	2		32	30	
5	Handling of Chlorine & use of Breathing Apparatus (TCC)	4	3	75	68	
6	Induction level Trg. to Asst. Engineers	1				
7	Total Quality Management sponsored by CPHEEO	7	2	65	47	
8	Preparation of Estimates for civil works	1				
9	Training on Total Station (new recruits)	3	2	20	20	
10	Preparation of project report	1				
11	Structural Engineering for field Engineers	1				
12	Pipe Laying and Testing	1	1	37	30	
13	Training on AUTOCAD (Level I)	1	1	35	28	
14	Computer Awareness & Software Application	2				
15	Advanced Computer Training Courses (MS Access)	1				
16	Refresher course on "Computer Training (MS WORD, MS EXCEL, MS POWER POINT)	2	1	36	33	
17	Computerised Network design (EPANET)	1	4	117	100	
18	Training on e-ABACUS	12	10	360	325	
19	Internet & e-mail	1	2	69	59	
20	Training on Tally	1	2	69	73	
21	Training on Legal Aspects &	1				

	Disciplinary Proceedings					
22	Yoga and Meditation(Part Time)-2 1/2 hours	2				
23	Induction level Trg. to LDC's	1				
24	Refresher course for Last grade Employees	1	1	35	31	
25	Induction level Trg. to Overseers/D'man	1	2	78	77	
26	Induction level Trg. to Divisional Accountants	1				
27	Induction level Trg. to Operators	4	3	90	87	
28	Orientation program for Meter Readers	3				
29	Vigilance Awareness	1	1	26	35	
30	Joining time & Leave	1				
31	Induction level training to Plumbers	1	3	92	90	
32	Water Supply Act and Regulation	1				
33	Finance for non finance Managers	1				
34	Service delivery and customer Relations	1				
35	Communication Skills for Managers	1				
36	Team building and conflict management	1				
37	Decision Making Effective Leadership	1	2	60	57	
38	e-tender and Tender Process	2				
39	Supervisory Effectiveness	1				
40	Bill Audit	2	2	70	58	
41	Works & Fixed Asset Accounting system, Preparation of Works Abstract and Monthly Accounting System	1	1	35	34	
42	Retirement Planning	1				
43	Pension Calculation (Region wise)	1				

44	Pay fixation (Region wise)	1				
45	Technical Assistant & Preparation of Technical Assistant Bills (Region wise)	4				
46	Right to Information Act	1	1	35	26	
47	Income Tax Calculation	1				
48	Stress Management	1				
49	How to run a meeting	1	1	23	15	
50	Estimation for Electrical and Mechanical items	1	1	37	29	
51	Design & Selection of Pumps and Motors	1	1	37	26	
52	Repair and Maintenance of Pumps & Motors	1				
53	Refresher course for Chemist	1				
54	Sharing Best Practices	2				
55	Management skills for Senior Executives	1				
56	Motivation	2				
57	Training on SCADA	1				
58	Rainwater Harvesting	1				
59	Water Quality management	1				
60	Induction level Trg. To Divisional Accountants	2				
61	Refresher course for Drivers	1				
	<b>TOTAL</b>	<b>103</b>	<b>49</b>	<b>1600</b>	<b>1445</b>	

**Table 2 : Trainings outside Calendar 2013- 14.**

Sl No	Name of Training	No of Batches conducted	Venue	No of Participants
1	Training on i pad	1	CWE	22
2	Wide Area Network Implementation	3	CWE	51
3	DDFS	7	CWE	214
4	Punching	1	CWE	18
6	Technical Presentation on Horizontal Directional Drilling	1	CWE	24
7	SSDG	2	CWE	44
8	Training on Meter Reading to last Grade Employees	12	CWE	415



9	Implementation of National Electronic Clearance System	1	CWE	29
10	Training on e-ABACUS		Region wise	432
	<b>Total</b>	<b>28</b>		<b>1249</b>

Besides the calendar trainings, we have organised 28 more programs in-house based on requirements, covering 1249 officers additionally as given in Table 2 above. Thus the total number of in house training programs comes to 77, out of a possible 103 batches, making the achievement 74.75%. A total of 2694 officers out of the 3605 targetted (74.73%) were covered in the above trainings. In addition to this, during the last year, we have generated an amount of Rs. 16,78,745/- from external agencies both private and government, as rent for halls and hostel room, as on 15.03.2014. This month, another two departments have also confirmed their program in our centre.

### I. 2. Training Workshops/Seminars

The following Workshops were also conducted during the financial year, 2012-13.

**Table 3 : Details of Workshops/Seminars**

SI No.	Name of Workshop	Date and duration	Venue	No of Participants
1	Health & Sanitation Employees of Local Bodies	1	CWE	23
	<b>Total</b>			<b>23</b>

### I. 3. CPHEEO Refresher course.

We had nominated 100 officers for the CPHEEO sponsored programs. But only 30 got selected as this year the CPHEEO has cancelled most of the refresher courses.

**Table 4: Details of CPHEEO Refresher course.**

SI No.	Name of Course	Conducted by	No of engineers sponsored
1	Structural Design of Water Treatment Plants & Other Related Structures	VNIT, Nagpur	5
2	Water Treatment Plant Design	VNIT, Nagpur.	4
3	Pipes & Conduits	CTI & RC, Mumbai	5
4	Care & Use of Chlorinators	CTI & RC, Mumbai	1
5	Water Supply System management	T.W.A.D Board, Chennai	2
6	Preventive Maintenance and Leak Detection in Water Distribution System	CTI & RC, Mumbai	4
7	Pump & Pumping Machinery for Public	Institution of	5

	Health Engineering jobs	Public Health Engineers	
8	Laying Water Mains & Sewer Lines	CMWSSB, Chennai	3
9	Public Health Engineering Structures	T.W.A.D Board, Chennai	1
	<b>Total</b>		<b>30</b>

#### I. 4. Trainings conducted by other agencies.

##### I.4.1. Trainings conducted by the external agencies outside the state.

31 engineers were sent for attending the following trainings conducted by external agencies outside the state as detailed in Table 6 below.

**Table 5: Outside state trainings.**

SI No.	Name of Course	Conducted by	No of engineers sponsored
1	NRW Workshop	Japan International Cooperation Agency	3
2	Residential Training Workshop On "24X7 water supply, Water Reuse" & "Zero Liquid Discharge	EA Water Pvt Ltd	10
3	Water hammer Workshop - 2014	Knowledge n Techniques	5
4	Training on "RWS & Schemes" Design, Selection and Operation & Maintenance of Pumping Equipment.	Engineering Staff College of India, Hyderabad	4
5	Training on "Planning Investigation, Design & Implementation of Rural Water supply Schemes Including use of Total Station and IT applications"	Engineering Staff College of India, Hyderabad	2
6	Training on "Water and Energy Audit, Water Use efficiency, benchmarking and Evaluation of Rural water Supply Schemes	Engineering Staff College of India, Hyderabad	5
7	Training on "Conjunctive Use of Surface & Ground Water	Rajiv Gandhi National Ground Water Training and Research Institute	2
	<b>Total</b>		<b>31</b>

##### I.4.2. Trainings conducted by the external agencies inside the state.

We have also sent 66 officers for attending programs conducted by other agencies within the state.

**Table 6 : Inside state trainings.**

SI No.	Name of Course	Conducted by	No of engineers sponsored
1	Safe Water and Human Health	CWRDM	3
2	Design Aspects and Soil Exploration for High Structures	Govt. Engineering College, Trichur	2
3	National Workshop on Modern Techniques in Geotechnical and construction Engineering	CUSAT, Kochi	2
4	Sensitisation Workshop on Integrated Water Resources Management	CWRDM	4
5	Strategies for Groundwater Development and Management	CWRDM	2
6	Aquifer Recharge (AR) and Aquifer Storage & Recovery (ASR)	CWRDM	5
7	Recent Advances in Structural Engineering, RASE - 2013	CUSAT	2
8	Cyber Security	The Trivandrum Management Association	2
9	Introduction to Application of RS & GIS in Water Management	CWRDM	1
10	Sustainable Technologies In Waste Water Treatment	The College of Engineering, Trivandrum	2
11	Management of Organisational Change	CWRDM	6
12	National Training Programme on "Roof Top SPV"	Society of Energy Engineers and Managers	2
13	Training Programme on PPP Management	State Planning Board	1
14	Presentation of draft Annual Energy Savings Plan for Municipal and Industrial Sector for the State of Kerala	Energy Management Centre	2
15	Advanced Training on PPP	State Planning Board	1

16	India water Expo & Conference	EA Water Pvt	3
17	National Conference on Recent Engineering Advancement & Trends	Pankajakasthuri College of Engineering & Technology	2
18	Bio Sand Water Fitter Training	Friendly Water for the World, Bangalore	4
19	Water Reuse - Recycle \$ Zero Liquid Discharge & Basics of ETP/STP Design & Operation	EA Water Pvt	1
20	Contract Management	NICMAR	19
23			
	Total		66

### I.5. M.Tech course

**Table 7: M.Tech Program**

Sl No.	Name of course	No. of seats proposed	No. of participants attended
1	M.Tech (CPHEEO sponsored various colleges)	3	3
2.	M.Tech Environmental Engineering course at the College of Engineering, Trivandrum	3	3
3.	M.Tech (Environmental Engineering) at Govt. Engineering College, Thrissur	2	2
	Total	8	8

### Renting out Training Centre

The newly built Centre for Water Education has all the modern facilities including Hi-Tech class rooms, High speed internet connectivity, well equipped computer lab, hostel facilities for 52 persons among others. It is also ideally located in the heart of the city, but still away from the hustle and bustle of the city.\

There were enquires from various government and private organisations about the possibility of hiring the facility for their training activities. The HLC considering the potential for generating revenue has decided to rent out of the facility(excess capacity) at the following rates.

SL.No	Facility	Rate for Govt/Public Sector	Rate for others
1	Lecture Halls(A/C)	Rs.5,000	Rs.6,000
2	Computer Labs(A/C)	Rs.7,500	Rs.10,000

Also the HLC which met on 29.10.2012, had fixed the rent for A/C rooms in hostel as Rs.1500/- (Rs.750/- per person) and Rs.1000/- for single occupancy. We may fix separate rent for the A/C rooms depending on the purpose for which the officer has availed the room so as to place before the next HLC.

KERALA WATER AUTHORITY  
TRAINING CENTRE  
STAFF DETAILS AS ON 31.03.2014

Sl no	Name	Desigantion
1	Smt .Geetha K Das	Executive Engineer(NC)
2	Smt .Sobha.S	Asst Exe Engineer II
3	Smt.Shyja Rani	Asst Engineer I
4	Sri.N.V.Ajith	Asst Engineer II
5	Sri.Joy Antony	Senior Superintendent
6	Sri.G.Vinod	Juniuor Superintendent
7	Sri.Deepak.B	UDC
8	Sri.S.Ajith	LDC
9	Smt.Shyini.S	D'Man Gr II
10	Smt.Sindhu.S	Overseer III
11	Sri.Sreejith.P.V	Operator
12	Sri.Pradeep.S	Peon

## Chapter XII WASCON

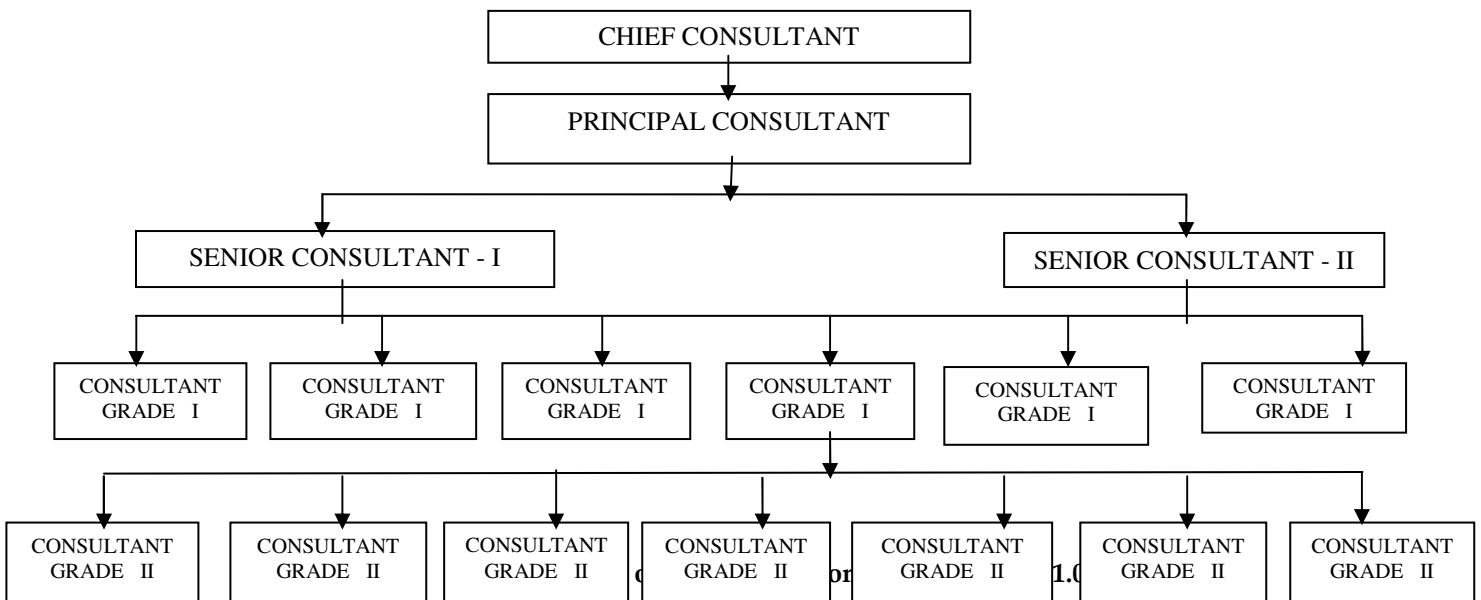
### 1. Organizational set up of WASCON

WASCON was setup at Thiruvananthapuram as per G.O(Rt) 45/2008/WRD datd 08/01/2008. Later on as the quantum of work in Northern Region increased, satellite offices were set up at Thrissur, Kannur and at Kondotty. The Human Resource presently available under WASCON which is inclusive of staff placed at satellite offices is given below:-

1.	Chief Consultant (CE)	1
2.	Principal Consultant (DCE)	1
3.	Senior Consultant (EE)	2
4.	Consultant Grade I (AEE)	6
5.	Consultant Grade II (AE)	7
6.	Design Assistant (D/man Gr. I/II)	5
7.	Surveyor	1
8.	Overseer Gr. III	3
9.	Administrative Staff	5
10.	Office Facilitator (Peon)	3
	Total	34

WASCON is head by a Chief Consultant in the rank of Chief Engineer.

### ORGANISATIONAL SET UP OF WASCON



1.	Sri. Viji Titus	-	Chief Consultant	from 06/2013
2.	Smt. C. Chandrika	-	Chief Consultant	3/2013 to 4/2013
3.	Smt. Philomena Hychinthia	-	Principal Consultant	from 3/2013
4.	Sri. S. Haris	-	Senior Consultant	from 1/2014
5.	Sri. M. Luqman	-	Senior Consultant	from 10/2013
6.	Sri. V.G. Muraleedharan	-	Executive Engineer	4/2013 to 09/2013
7.	Smt. Gracen J. Panicker	-	Senior Consultant	3/2013 to 11/2013
8.	Sri. Gireesan . P	-	Senior Consultant	3/2013
9.	Sri. Ahamed Rasheed C.K.	-	Asst. Exe. Engineer	from 3/2013
10.	Smt. Raji. P	-	Asst. Exe. Engineer	from 3/2013
11.	Sri. D. K. Ramesh Babu	-	Asst. Exe. Engineer	from 3/2013
12.	Smt. Sreekala L. B	-	Asst. Exe. Engineer	from 3/2013
13.	Sri. Sunil C. Behanan	-	Asst. Exe. Engineer	from 3/2013 to 2/2014
14.	Sri. Narayanan Namboodiri T.V	-	Asst. Exe. Engineer	from 3/2013 to 12/2013
15.	Smt. Asha Raj N.	-	Asst. Exe. Engineer	from 3/2013
16.	Sri. Sundareswaran	-	Asst. Exe. Engineer	4/2013 to 12/2013
17.	Smt. Manju J Nair	-	Asst. Exe. Engineer	from 1/2014
18.	Smt. Rekha P. Nair	-	Asst. Exe. Engineer	from 1/2014
19.	Smt. Manju J. Nair	-	Asst. Engineer	3/2013 to 12/2013
20.	Smt. Maya S Devi	-	Asst. Engineer	from 3/2013
21.	Smt. A. Sujatha	-	Asst. Engineer	from 3/2013 to 12/2013
22.	Smt. Meeti Jayan C	-	Asst. Engineer	from 3/2013
23.	Smt. Christin Sheena	-	Asst. Engineer	from 3/2013
24.	Smt. Remya A. R.	-	Asst. Engineer	from 3/2013 to 9/2013
25.	Smt. Rekha P. Nair	-	Asst. Engineer	3/2013 to 12/2013
26.	Smt. Sindhu K.P	-	Asst. Engineer	from 03/2013
27.	Sri. Suresh Kumar U.P	-	Asst. Engineer	9/11/2012 to 21/03/2013
28.	Smt. Thushara V. S	-	Asst. Engineer	4/2013 to 11/11/2013
29.	Smt. Ramani. V.K	-	Asst. Engineer	from 5/11/2013
30.	Smt. Neethu Mohan	-	Asst. Engineer	11/11/2013 to 14/2/2014
31.	Sri. Subhash Kumar. S	-	Junior Superintendent	from 03/2013
32.	Smt. Beena C.	-	UDC	3/2013 to 29/07/2013
33.	Smt. Krishna Priya R.S	-	LDC	from 03/2013



34. Smt. Deepa V. S	-	UDC	from 8/2013
35. Smt. B. Jayakumary	-	Sr. Gr. Typist	from 3/2013
36. Sri. Akber Ali	-	I Gr. D'Man	from 17/8/2013
37. Sri. P. Brightus	-	I Gr. D'man	3/2013 to 31/05/2014
38. Smt. S. Baby	-	III Gr. Overseer	from 3/2013
39. Smt. Smitha P.M.	-	III Gr. Overseer	4/11/2013 to 31/07/2014
40. Smt. Shiji. C.H.	-	II Gr. Surveyor	from 3/2013
41. Sri. R. Somarajan	-	Driver	from 10/02/2014
42. Sri. G. Asokan	-	Peon	from 3/2013
43. Sri. Jibu. K.	-	Peon	from 3/2013
44. Smt. B. Nalini	-	PT Sweeper	from 3/2013 to 7/8/2013

**2. No. of works taken up during 2013-14**

WASCON has taken up 76 works during 2013-14

**3. No. of works completed during 2013-14**

The No. of works completed during 2013-14 is 65 nos.

**4. Total consultancy fee collected during 2013-14**

The total consultancy fee collected during 2013-14 is 42.98 lakhs.

**6 List of major works completed as on 31-03-2014**

**Sl. Description of Work**

**No.**

- 1 CWSS to Parassala and Marukil Maranalloor villages - construction of 1.9 LL OHSR at Thoongampara.
- 2 ARWSS to Kanjirapally Elikulam and Chirakkadavu panchayaths - construction of 2.75LL capacity OHSR AT Ponkunnam Jn.
- 3 ARWSS to Kilimanoor 14.64LL sump at Kailasamukunnu
- 4 KWA - JICA assisted KWSP Kozhikode package V . Rehabilitation of existing WSS to Kozhikode city region design of pump house & treated water sump at Mavoor design verification.
- 5 CWSS to Vithura & Tholicode villages - 9.75 mld capacity WTP at Vavupara - Design verification
- 6 CWSS to Vithura Tholicode villages, design of OHSR at Pachamala

- 7 ARWSS to Nooranadu, Chunakkara & Palamel villages - phase II - laying clear water pumping main using 200mm DI k9 pipes 5190m - GI tank at Mattappallymala & construction of 8.25 LL GLSR at Mattapallymala.
- 8 Augmentation of WSS to Kumarakom & Thiruvappu panchayath construction of 10LL OHSR at Kumarakom market Jn.
- 9 4.37 LL GLSR at Kadalkanikunnu
- 10 CARWSS to Kattappana & Ayyappan covil villages - Design'construction & commissioning of 7mld capacity treatment plant at Alady Kurisumala -Design verification charges.
- 11 CWSS to Kovalam Tourist Area - Vizhinjam corporation area, Kalliyoor, Venganoor area in TVPM district. Construction of 8m dia well cum pump house at vellayanikayal-supplying & laying 600mm DIK9 pipe for raw water pumping main and construction of 21.9 mld WTP at Agricultural college campus
- 12 NRDWP - XVII - WSS to Purapuzha & Manakkad panchath in Idukki district- Design, construction and commissioning of 8mld WTP and 5.5LL capacity sump,pump house & allied structures at Arikkuzha in Manakkad panchayath (package II)
- 13 JICA Assisted KWSP - Cherthala WSS Alternate route for laying raw water pumping main and gravity main - design verification
- 14 NRSS to Chengala, Muliyar, Madhur and Morgal Puthur panchayath in Kasaragod Taluk in Kasaragod district - phase I package II Design of 24.4LL OHT at Bovikkanam & 5.5LL & 5.2LL OHT at Chengala - Verification
- 15 WSS to Erumely in Kottayam district,Design, construction & commissioning of 10 mld WTP at MES junction
- 16 JNNURM WSS to Kochi city - Part I package WS XI
- 17 NRDWP - XVI - WSS to Adimali (package I) construction of 2.6mld WTP and 2.5LL capacity clear water sump at Korangatty
- 18 CWSS to Parassala & adjoining villages Kollayil and Chenkal panchayath - OHSR at Kudumbottukonam and Dhanuvachapuram ITI Campus.
- 19 CWSS to Vellathooval Konnathady villages package I(A) 6mld WTP at Ellackal Kunjithanny ,design verification
- 20 WSS to East Eleri panchayath in Kasargod district - 5LLcapacity GLSR at Kurusumala
- 21 NRWSS to Chengala, Muliyar, Madhur and Morgal Puthur Panchayaths in Kasargod Taluk in Kasargod district phase I, package III - 30 mld WTP and allied structures at Bavikkarakunnu.
- 22 WSS to Belur and adjoining villages - 3 mld WTP at Ayirode - Package I
- 23 WSS to Karalam panchayath - Design of 6LL OHSR at Karalam.

- 24 KWA/JNNURM/ Improvements to WSS to TMC & Adjoining Pts strengthening distribution network design of 50000 Litres capacity sump at Vandithadam.
- 25 NRWDP XVI -SLSSC 2011 WSS to Kannamangalam- construction of 4mld WTP and 2LL Clear water sump and pump house
- 26 WSS to Munnad, Bedadukka & Kuttikole villages - Design, Construction of 3mld WTP at Kollampana
- 27 WSS to Thrikkovilvattom and Nedumpna Panchayat - 5.5 MLD WTP at Kannanalloor
- 28 CWSS to Kovalam Tourist Area - Vizhinjam corporation area, Kalliyoor, Venganoor area in TVPM District. - 2.75 LL OHSR at Vandithadam
- 29 Foundation of LNG storage & Regasification facilities at Peroorkada factory TVPM of HLL - Design verification
- 30 UIDSSMT - DPR for sewerage Treatment plant - Payyannur municipality - Verification

**7 List of major works in progress as on 31-03-2014**

- 1 JNNURM WSS to Kochi city - Part I
- 2 CWSS to Vithura & Tholicode package III - Supplying laying & Commissioning of 250mm DI K9 Clear Water pumping main from WTP at Vavupura to OHSR at Thavakkal & Construction of 6.95LL capacity OHSR at Thavakkal
- 3 WSS to Vakkathanam panchayath in Kottayam district. Design construction and commissioning of 12m inside well cum pump house at Peroor
- 4 Providing Sewerage facilities in Thrissur Corporation area Construction of STP - DER preparation
- 5 ARWSS to Kilimanoor, Pazhayakunnumel and Madavoor villages supplying and laying distribution line to Zone I
- 6 Type design for Civil Structures GLSR, OHSR at intake well
- 7 KSUDP - UIDSSMT -DER for improvement of Water Supply Scheme t Kollam Corporation Nijarkadavu in Kallada River as source for appraisal
- 8 DER for JNNURM Project for the improvement of distribution Network of WSS in Kochi Corporation
- 9 NRDWP - XXI - RWSS to Amalapuram and Thattupara in Ayyarpuzha panchayath - Construction of 4m dia well cum pump house at Kallai thode\
- 10 Design of pipe carrying bridge at various locations SAARK Project

- 11 SAARK project CWSS to Parassala & adjoining villages and Marukil, Maranalloor villages - Supplying and laying Clear Water transmission main 11070m of 800mm DI K9 pipe from Kalippara water treatment plant to Kattakkada Junction.
- 12 Preparation of DPR - Kottathode in Mavelikkara Municipality
- 13 CWSS to Kzhakoottam - ARWSS to Kazhakoottam Menamkulam part village, pipeline bridge at Pallippuram

#### DETAILS OF KWA WORKS FROM 2013APRIL-2014MARCH

Sl No	Description of Work
1	CWSS to Parassala and Marukil Maranalloor villages - construction of 1.9 LL OHSR at Thoongampara.
2	ARWSS to Kanjirapally Elikulam and Chirakkadavu panchayaths - construction of 2.75LL capacity OHSR AT Ponkunnam Jn.
3	UWSS to Kazhakuttam ARWSS Menamkulam (part) villages, ARWSS to Iroorpara and RWSS to Edacode and adj villages - supplying & laying of 300mm DI K9 gravity main 9800m from GLSR at Sreenarayanapuram to Vetturoad Jn - Anchor block and valve chamber.
4	Supplying and laying 1084m of 700mm DIK9 clear water transmission main from Kattakada Jn to Thozhukkal Jn & 5846m of 700mm DIK9 CWTM from Neyyattinkara Alummoodu Jn to Pazhayakada Jn- Thrust Block design.
5	CWSS to Kalliyoor Venganoor and adjoining areas DER Preparation
6	ARWSS to Kilimanoor 14.64LL sump at Kailasamukunnu
7	KWA - JICA assisted KWSP Kozhikode package V . Rehabilitation of existing WSS to Kozhikode city region design of pump house & treated water sump at Mavoor design verification.
8	CWSS to Vithura & Tholicode villages - 9.75 mld capacity WTP at Vavupara - Design verification
9	CWSS to Vithura Tholicode villages, design of OHSR at Pachamala
10	CWSS to Parassala and Marukil Maranalloor villages - supplying & laying 10065m of 700mm DI K9 clear water transmission main from Kattakada Jn to Thozhukal Jn and 7365m of 700mm DIK9 CWTM from Neyyatinkara Alummoodu Jn to Pazhayakada Jn - Design of valve chamber.
11	ARWSS to Kanjirappalli, Elikullam, Chirakadavu panchayath in Kottayam district construction of 1.55LL capacity sump & pump house at Gramadeepam - Design verification charges
12	ARWSS to Nooranadu, Chunakkara & Palamel villages - phase II - laying clear water pumping main using 200mm DI k9 pipes 5190m - GI tank at Mattappallymala & construction of 8.25 LL GLSR at Mattapallymala.

- 13 Augmentation of WSS to Kumarakom & Thiruvappu panchayath construction of 10LL OHSR at Kumarakom market Jn.
- 14 4.37 LL GLSR at Kadalkanikunnu
- 15 CARWSS to Kattappana & Ayyappan covil villages - Design'construction & commissioning of 7mld capacity treatment plant at Alady Kurisumala -Design verification charges.  
CWSS to Kovalam Tourist Area - Vizhinjam corporation area, Kalliyoor, Venganoor area in TVPM district. Construction of 8m dia well cum pump house at vellayanikayal-supplying & laying 600mm DIK9 pipe for raw water pumping main and construction of 21.9 mld WTP at Agricultural college campus
- 17 NRDWP - XVII - WSS to Purapuzha & Manakkad panchath in Idukki district-Design, construction and commissioning of 8mld WTP and 5.5LL capacity sump,pump house & allied structures at Arikuzha in Manakkad panchayath (package II)
- 18 JICA Assisted KWSP - Cherthala WSS Alternate route for laying raw water pumping main and gravity main - design verification charges.
- 19 NRSS to Chengala, Muliya, Madhur and Morgal Puthur panchayath in Kasaragod Taluk in Kasaradod district - phase I package II Design of 24.4LL OHT at Bovikkanam & 5.5LL & 5.2LL OHT at Chengala - Verification charges
- 20 19 - Replacement of pipelines - Municipality strengthening distribution system - phase I.16 LL capacity OHSR at Sangeetha Theatre
- 21 MPLADS - 2012-13 providing water supply to SC/ST habitat in various wards of Thazhava panchayath construction of 1.5LL OHT
- 22 WSS to Erumely in Kottayam district,Design, construction & commissioning of 10 mld WTP at MES junction
- 23 JNNURM WSS to Kochi city - Part I package WS XI
- 24 NRWSS to Chengala, Muliya, Madhur and Morgal Puthur Panchayaths - phase I package I - 8m dia intake well cum pump house
- 25 NRDWP - XVI - WSS to Adimali (package I) construction of 2.6mld WTP and 2.5LL capacity clear water sump at Korangatty
- 26 CWSS to Parassala & adjoining villages Kollayil and Chenkal panchayath - OHSR at Kudumbottukonam and Dhanuvachapuram ITI Campus.
- 27 CWSS to Vellathooval Konnathady villages package I(A) 6mld WTP at Ellackal Kunjithanny ,design verification charges
- 28 WSS to East Eleri panchayath in Kasargod district - 5LLcapacity GLSR at Kurusumala
- 29 NRWSS to Chengala, Muliya, Madhur and Morgal Puthur Panchayaths in Kasargod Taluk in Kasargod district phase I, package III - 30 mld WTP and allied structures at Bavikkarakkunnu.
- 30 WSS to Belur and adjoining villages - 3 mld WTP at Ayirode - Package I

- 31 WSS to Karalam panchayath - Design of 6LL OHSR at Karalam.
- 32 ARWSS to Uppala & adjoining villages - Design, construction, commissioning of 3.5m height RCC weir at Kodamgai.
- 33 KWA/JNNURM/ Improvements to WSS to TMC & Adjoining Pts strengthening distribution network design of 50000 Litres capacity sump at Vandithadam.
- 34 UWSS to Manjeri in Malappuram District - RWPM from Areacode to WTP at Kilikkal - Surge Analysis.
- 35 CWSS to Kunnummal and adjoining villages 700mm DI K9 RWPM & 600mm DI K9 CWPM - Surge Analysis.
- 36 SPAN NABARD Assisted WSS to Cheekode & Adjoining villages package IIA Transformer building at Erattamuzhi
- 37 NRWDP XVI -SLSSC 2011 WSS to Kannamangalam- construction of 4mld WTP and 2LL Clear water sump and pump house
- 38 JNNURM WSS to Kochi city - Part I
- 39 WSS to East Eleri panchayath in Kasargod district - package I - Structural design verification of well cum pump house
- 40 WSS to Munnad, Bedadukka & Kuttikole villages - Design, Construction of 3mld WTP at Kollampana
- 41 WSS to Thrikkovilvattom and Nedumpana Panchayat - 5.5 MLD WTP at Kannanalloor
- 42 CWSS to Kovalam Tourist Area - Vizhinjam corporation area, Kalliyoor, Venganoor area in TVPM District. - 2.75 LL OHSR at Vandithadam
- 43 CWSS to Vithura & Tholicode package III - Supplying laying & Commissioning of 250mm DI K9 Clear Water pumping main from WTP at Vavupura to OHSR at Thavakkal & Construction of 6.95LL capacity OHSR at Thavakkal
- 44 WSS to Vakkathanam panchayath in Kottayam district. Design construction and commissioning of 12m inside well cum pump house at Peroor
- 45 Providing Sewerage facilities in Thrissur Corporation area Construction of STP - DER preparation
- 46 ARWSS to Kilimanoor, Pazhayakunnumel and Madavoor villages supplying and laying distribution line to Zone I
- 47 Type design for Civil Structures GLSR, OHSR at intake well
- 48 KSUDP - UIDSSMT -DER for improvement of Water Supply Scheme t Kollam Corporation Nijarkadavu in Kallada River as source for appraisal
- 49 DER for JNNURM Project for the improvement of distribution Network of WSS in Kochi Corporation

- 50 NRDWP - XXI - RWSS to Amalapuram and Thattupara in Ayyarpuzha panchayath - Construction of 4m dia well cum pump house at Kallai thode\  
 51 Design of pipe carrying bridge at various locations SAARK Project  
 52 SAARK project CWSS to Parassala & adjoining villages and Marukil, Maranallloor villages - Supplying and laying Clear Water transmission main 11070m of 800mm DI K9 pipe from Kalippara water treatment plant to Kattakkada Junction.  
 53 Preparation of DPR - Kottathode in Mavelikkara Municipality  
 54 UWSS to Kazhakuttam - ARWSS to Kazhakkootam Menamkulam (part) village, pipeline bridge at Pallippuram

### DETAILS OF OUTSIDE WORKS FROM 2013 APRIL-2014 MARCH

- | Sl No | Description of Work   |
|-------|---|
| 1     | Kasaragod district panchayath drinking WSS to the district hospital Kasaragod at Kanhangad  |
| 2     | Moolottuchira WSS - DPR Preparation - Kothamangalam corperation   |
| 3     | Providing WS to coastal wards of Onchiyam - Chorode and saline affected wards of Eramala - DER preparation                        |
| 4     | Foundation of LNG storage & Regasification facilities at Peroorkada factory TVPM of HLL - Design verification charges.            |
| 5     | KSUDP - UIDSSMT Fresh DPR for appraisal -   |
| 6     | KSUDP -UIDSSMT fresh DPRs (6nos) for appraial verification charges.   |
| 7     | Relaying 300mm MS pipe with 300mm DI-K9 For a length of 250m  |
| 8     | KSUDP - UIDSSMT Fresh DPR for appraisal. WSS to Thodupuzha Municipality   |
| 9     | KSUDP - UIDSSMT Fresh DPR for appraisal - WSS to Changanassery Municipality - Verification charges.                               |
| 10    | KSUDP - UIDSSMT Fresh DPR for appraisal - WSS to Thiruvalla Municipality - Verification charges.                                  |
| 11    | KSUDP - UIDSSMT Fresh DPR for appraisal - Kanhangad Municipality WSS to Vazhunnoradi - Laying distribution system - verification. |
| 12    | KSUDP - UIDSSMT Fresh DPR for appraisal - WSS to Palakkad Municipality - Verification charges.                                    |

- 13 KSUDP - UIDSSMT Fresh DPR for appraisal Augmentation of WSS to Nilambur Municipality laying distribution system - verification charge.
- 14 KSUDP - UIDSSMT Fresh DPR for appraisal - Augmentation of UWSS to Kothamangalam Municipality - verification charges.
- 15 KSUDP - UIDSSMT Fresh DPR for appraisal - Augmentation of UWSS to Shornur Municipality
- 16 KSUDP - UIDSSMT Fresh DPR for appraisal - WSS to Kottakkal Municipality - DER for appraisal.
- 17 KSUDP - UIDSSMT Improvement of WSS to Kollam Corporation - Njankadavu in Kallada River as source - DER appraisal.
- 18 KSUDP - UIDSSMT WSS to Pathanamthitta Municipality DER appraisal
- 19 UIDSSMT - DPR for sewerage Treatment plant - Payyannur municipality - Verification Charge
- 20 UIDSSMT - DPR on WSS to Neeleswaram & Kanhangad municipalities
- 21 UIDSSMT - DPR for sewerage project - Perinthalmanna municipalities
- 22 DPR for WSS to Kottakkal Municipality in Malappuram
- 23 Augmentation of WSS to Kalady Plantations

## 1.full form WASCON:Water and sanitation consultancy

### 2. Achievements:

Major achievements during 2013-14.

- 1.DPRs for Jalanidhi Project : 6 Nos
- 2.Project appraisal for KSUDP : 23 no
- 3.Design verification and approval of 13 Water Treatment Plants
- 4.Design verification and approval of 14 OHSRs and 6 GLSRs
- 5.DER preparation of multi panchayath schemes : 6 nos



WASCON is in the process of completing the challenging task of design of distribution system for Water Supply to Kochi City

#### ABBREVIATIONS

1. ARP Accelerated Rural Project.
2. ARWSS Accelerated Rural Water Supply Scheme.
3. CWSS Comprehensive Water Supply Scheme.
4. DER Detailed Engineering Report.
5. DRW Drought Relief Work.
6. DBA Data Base Administer.
7. HUDCO Housing Development Corporation.
8. IPD Investigation, Planning and Design.
9. LCS Low Cost Sanitation.
10. ORWS Other Rural Water Supply.
11. PHD Public Health Division
12. PMU Project Monitoring Unit.
13. PS&GL Personal & General.
14. PER Preliminary Engineering Report.
15. SCP Special Component Plan.
16. TSP Tribal Sub Plan
17. UWSS Urban Water Supply Scheme
18. WB World Bank.
19. WBP World Bank Project.
20. WGDP Western Ghat Development Programme.
21. WS Water Supply.
22. WSS Water Supply Schemes.
23. JICA Japan International Co-operation Agency.